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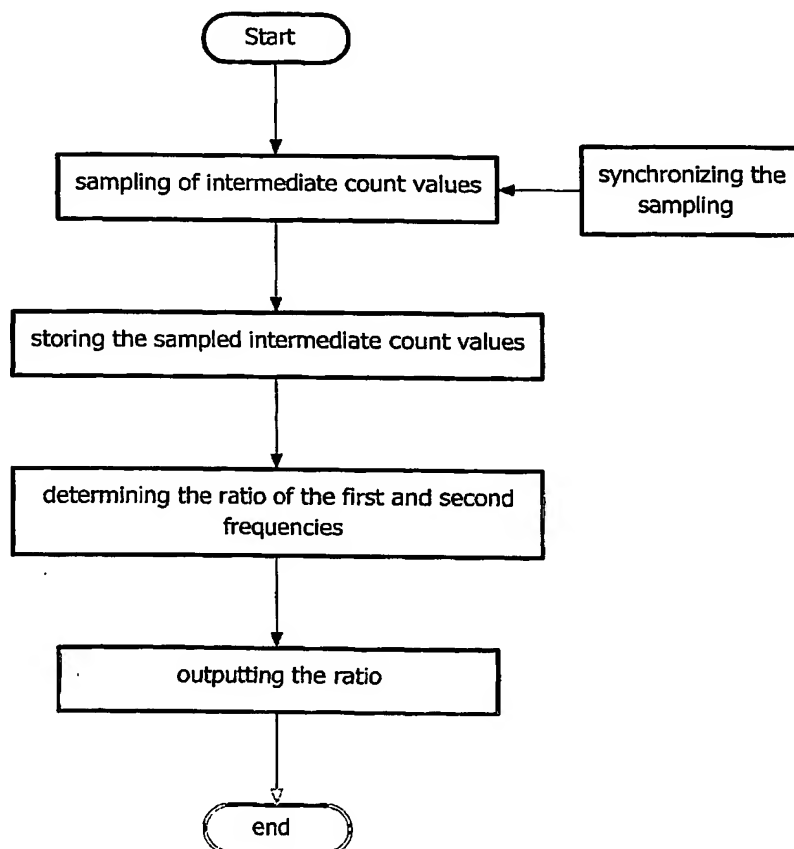
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(54) Title: **IMPROVED FREQUENCY DETERMINATION**



(57) Abstract: Simple conventional frequency measurement circuits comprise two counters as essential elements. In such counters a problem may occur that the count value has a relative error of  $\pm 1 / N$ , corresponding to the measurement interval. According to the present invention, pairs of intermediate count values of the counters are used to estimate the frequency ratio. According to an aspect of the present invention, this may be made on the basis of the steepness of a regression line determined on the basis of the pairs of intermediate count values of the counters. Furthermore, according to an aspect of the present invention, both counters continue counting while the intermediate sample values are sampled.



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